



The Halifax Amateur Radio Club

# REFLECTOR

PO BOX 663  
HALIFAX NS  
B3J 2T3

March 2003 Volume 64 Number 3

club address: [www.halifax-arc.org](http://www.halifax-arc.org)



St. Patrick's Day is March 17  
March 20 is Spring Equinox



HARC Club Station phone number - 490-6421

See the HARC Web site at: <http://www.halifax-arc.org>

## Our executive and committees.

Position Name & Call Sign	Phone #	E-Mail
President - Dick Grantham, VE1AI	434-8046	ve1ai@rac.ca
First V.P. - VACANT		
2nd V.P. - VACANT		
Secretary - Wayne Ernst, VE1GPK	820-2132	ve1gpk@rac.ca
Treasurer - Jeremy Fowler, VE1JHF	835-6651	ve1jhf@rac.ca
Member at Large - Howard Dickson, VE1DHD	823-2024	ve1dhd@rac.ca
Club Station Mgr. - John Goodwin, VE1CDD	865-5731	ve1cdd@rac.ca
Past President - Bill Elliott, VE1MR	865-8567	ve1mr@rac.ca

## Committees/Offices/Prime Contacts

Public Relations: Wayne Harasimovitch, VE1WPH	832-3600	ve1wph@rac.ca
IPARN and Brit Fader Memorial QSL Bureau Manager - Bob Burns, VE1VCK	865-9414	ve1vck@rac.ca
EMO Coordinator - Dave George, VE1AJP	466-8723	dgeorge@is.dal.ca
Reflector editor - Lynn Bowser, VE1ENT	865-8567	ve1ent@rac.ca
Reflector Distribution- Tom Caithness, VE1GTC	477-7081	ve1gtc@rac.ca
Membership - Tom Caithness, VE1GTC	477-7081	ve1gtc@rac.ca
Web page - Rob Ewert, VE1KS,	826-1705	ewertr@hfx.eastlink.ca
Basic ham course Coordinator Tom Caithness, VE1GTC	477-7081	ve1gtc@rac.ca
Assistant - John Goodwin, VE1CDD	865-5731	ve1cdd@rac.ca
EMO Trailer Assembly coord - David Musgrave, VE1EDA	435-4333	ve1eda@rac.ca
Flea market Chairman - Dave Nimmo, VE1NN		ve1nn@rac.ca
Field Day coordinator - John Goodwin, VE1CDD	865-5731	ve1cdd@rac.ca
RAC Asst Director - Wayne Marchand, VE1WJM,	860-1580	ve1wjm@rac.ca
NSARA Director - Barry Diggins, VE1TRI	861-3719	ve1tri@rac.ca
Frequency coordinator for Nova Scotia - Bev Reynolds, VE1TL		

The **General Meeting** of the Halifax Amateur Radio Club will take place Wednesday, February 19, 2003 at 1930 hours (7:30 PM), at the former Bloomfield School building (corner of Almon and Agricola streets). The meeting will be held in the Multi-Purpose Room. The guest speaker will be Bill Galloway, VE1WWG, talking about magnetic loop antennas.

Guests are welcome.

## Bi-Election !!

for 1st Vice President and for 2nd Vice President of the HARC will be held at the March general HARC meeting. Yes there are individuals who have stated willingness to stand for both of these positions; but we need you there to vote as part of a quorum for the election.

## RAC

Congratulations to David Nimmo, VE1NN, our new Radio Amateurs of Canada Atlantic Director.



## Take-15 Net Controllers

**NOTE:** There have been some changes.

This will be the rotation.

If you cannot take the net on your particular evening get in touch with one of the others and trade places with them. If I have left any one off the list, or you want to join, please let Bill Elliott, VE1MR, know.

Mar. 16	Dave	VE1EDA
Mar. 23	Darryl	VE1DOH
Mar. 30	Charles	VE1MCR
Apr. 4	Herb	VE1HX
Apr. 11	Tom	VE1GTC
Apr. 18	Doug	VE1LDL
Apr. 25	Larry	VA1LW



I'm sure that those local and not so local hams & friends who attended the "ham" breakfast agree it was a most enjoyable way to spend a February morning. Thanks and well done to Dave VE1NN -ed.



## GENERAL INFORMATION

### TAKE-15 NET:

Sunday evenings at 8:30 PM on  
VE1PSR - 147.270 MHz +

AMSAT Net: Sunday evenings  
following the Take 15 Net.

### CLUB REPEATERS:

VE1PSR - 147.270 MHz +  
VE1HNS - 146.940 MHz -

### PACKET:

VE1NSD - 145.050 MHz LAN NODE  
VE1BBS - Local packet BBS  
accessible through the LAN

## Coming Events

Tune in to the AMSAT Net on Sunday evenings after the Take-15 Net with Wayne, VE1WPH.

Training – emergency response message handling by Amateur Radio. Never had a ham/EMO com course? Or feel you want a refresher or a chance to exercise your skills? Tom Caithness, VE1GTC, is planning a session. Please let him know you're interested (soon) so he can get on with the arrangements.

Practice CW net with Bill, VE9WW on Monday evenings at 9:30, frequency 3.715. Call in at any speed and he will try to match it. He asks however, please keep the speed down so more participants will be able to copy. Net call CWPVN.

The **Satellite Interest Group** is planning to build a base and erect a tower section on the roof of the former Bloomfield school to support an antenna for working satellite. A work party is needed for **Saturday, March 22, at 10AM**, weather permitting. If you care to help, call John Goodwin 865-5731 or e-mail [ve1cdd@rac.ca](mailto:ve1cdd@rac.ca)

The Multiple Sclerosis Annual Walkathon will be held on Sunday, May 4, 2003 starting and finishing at the Dalhousie Arena on South Street in Halifax.

Anyone interested in helping out can contact Jeremy, VE1JHF.

**DOWNEAST FLEAMARKET**  
Saturday June 7, 2003 at 10:00 AM  
(finally out from under the Apple Blossom!)

June 27, 28 - Field Day  
July 19 & 20 2003 – Museum of Ships Special Event

MS Bike Tour – August 9, 10, 2003  
Contact Rick Gardner, VE1RGG, to get involved.

August – Lunenburg Steak & Salmon Supper

## DOWNEAST FLEAMARKET

When: Saturday June 7, 2003 at 10:00 AM talk-in 147.27 +

Where: the HALIFAX FORUM ANNEX (same as last year) Map and directions will be on the HARC web site soon

Admission \$3 for everybody  
OPEN at 6:00 AM for sellers,  
10:00 AM for buyers.

....suggest buyers do breakfast at Steak & Stein and 3 minute walk back to the Forum

Usual demonstrations & displays...  
RAC/DXCC card checking/ IRLP, APRS demos, etc.

We are really going to push to get some momentum back into this fleamarket...we hope for computer tables and will not turn away the XYL's who want to bring crafts and baked goods!

Questions  
Table reservations....  
[ve1nn@rac.ca](mailto:ve1nn@rac.ca)  
David S Nimmo, VE1NN

August – NSARA Picnic

October 7, 8, 9, 2003 – APCO conference - 15 or 20 volunteers needed for Radio & non-radio tasks (e.g. Drivers needed for 2 vans) Let's take advantage of a free booth to publicize local amateur radio, RAC and the NSARA at the Trade Show which will be part of APCO (Association of Professional Communications Officers) Conference. Contact Dave George, VE1AJP to volunteer to help out at this.

5th Annual NSARA Contest was held Sunday March 9, 2003  
8:00 AM to 12 noon and  
2:00 PM to 6:00 PM local time  
All info for submitting logs, etc. is on the NSARA web page-  
[www.interhop.net/~nsara](http://www.interhop.net/~nsara)

## Puzzler – Do You Know?

Hiram Percy Maxim is best known as one of the founders of the ARRL. What else was he famous for?

*Answer on page 4*



To let you better plan to attend presentations of interest to you here is a list of the scheduled entertainment for HARC general meetings:

April - Wayne Harasmovitch,  
VE1WPH - The History of CHU

May - Barry Manuel, VE1JRG -  
EMO and Amateur Radio

June - John Goodwin, VE1CDD -  
Field Day

September - open at present

October - Fast Scan TV and/or APRS  
speaker TBA

*If you can't be kind, at least have  
the decency to be vague*

Loyalist City Amateur Radio Club  
LCARC Fleamarket May 24, 2003

Location: Gondola Point, NB. (Near Saint John, NB).

Time: Vendors 8 am, with public doors open 10 am to 3 pm.

Admission: \$3.00 per person. Tables are free to vendors (please reserve tables in advance).

Information: [HTTP://PERSONAL.NBNET.NB.CA/VE9SAB](http://PERSONAL.NBNET.NB.CA/VE9SAB)

Wayne Sabeau [VE9SAB@rac.ca](mailto:VE9SAB@rac.ca)  
506-832-0998

Phillip Cyr [VE1PGC@rac.ca](mailto:VE1PGC@rac.ca)  
506-633-1384

Doug Steeves [VE9TNT@rac.ca](mailto:VE9TNT@rac.ca)  
506-832-4760

- ♦ Field checker VE1JS John will be there to check DXCC cards.
- ♦ RAC and VE9-VY2 QSL bureau will be there.
- ♦ There will be a canteen.
- ♦ Talk-in repeater is VE1EE on 147.270 + MHz.
- ♦ Door prize will be a 2-meter radio, with many other prizes to be given away.

**PRESIDENT'S NOTES**

March 2003

Yes, it is indeed March already even though the weather has not recognized that yet, and neither has the HF propagation. Conditions on the HF Bands have not peaked in the way we normally expect for the month of March. Lets hope they pick up as we get into the month.

Thanks to Dave, VE1NN, for arranging a great HAM BREAKFAST. The event was very well attended, with the president of RAC being guest speaker. Thanks Dave for a great effort.

In the spirit of the year of participation for the HARC, I am very pleased to report that we have two members who have agreed to run for the two vacant executive positions. There will be an election at the meeting should there be any more nominations.

Three local club members myself, VE1AI, Howard, VE1DHD, and Scott, VE1QD, had the fun of operating at VE1JF (with some other ops) in Victoria Beach for the ARRL DX SSB contest for the weekend of March 1. Despite dismal propagation, we almost managed 4 Band DXCC in one weekend (plus 60 countries on 80, 32 countries on 160 meters).

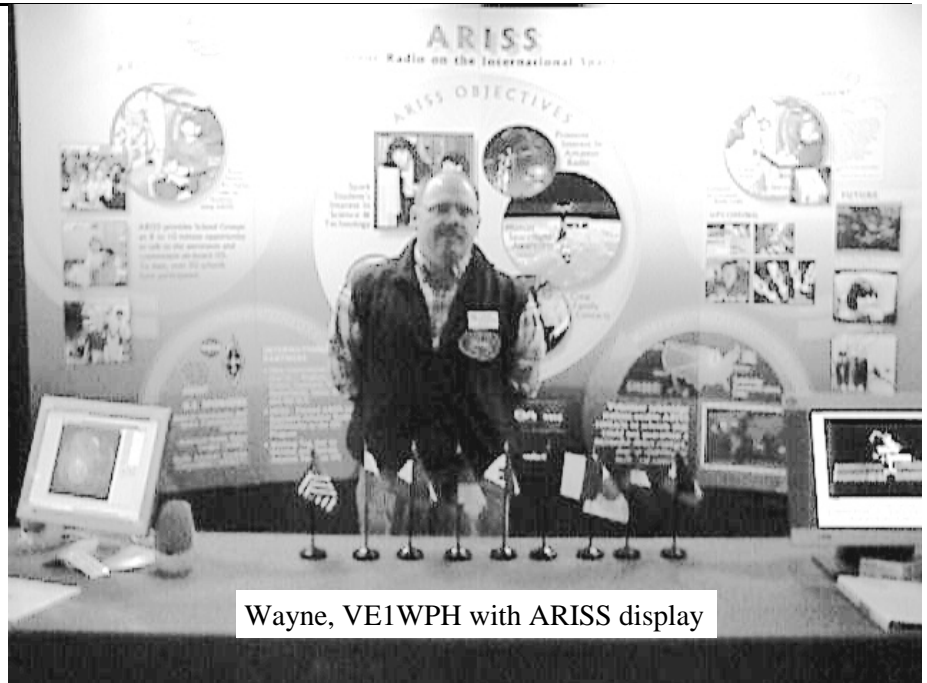
The satellite project is coming together but we still have need of someone to chair the Fast Scan TV project and the APRS project.

The Space program is running in High gear, and Wayne, VE1WPH, will keep us posted on the current excitement at the meeting.

The Membership business cards have been a big hit, and the NEW MEMBERSHIP CERTIFICATES are being prepared at present. Great projects, and great work by Wayne, VE1WPH, for spearheading these. Thanks Wayne.

Our entertainment is lined up for the rest of our year, so come out, participate and have fun.

73 Dick Grantham, VE1AI



Wayne, VE1WPH with ARISS display

**ARISS Display at IMAX**

The IMAX Theater on Chain Lake Drive is currently showing the 3D movie "SPACE STATION". This is a documentary detailing the construction of the International Space Station (ISS). You get an up-close and personal look at life aboard the ISS. This is the closest most of us will get to traveling in space. The images are breathtaking and with the 3D effects you find yourself floating inside the ISS with the crew. The 3D IMAX experience alone is well worth the price of the ticket.

Wayne, VE1WPH, has a plan to involve a group of school children in the **Amateur Radio on the International Space Station (ARISS)** project. This program enables children to contact the Space Station and talk with the astronauts. On behalf of the Halifax Radio Amateur Club, he has obtained an ARISS display from the Goddard Space Flight Center, a scale model of Space Station from the Canadian Space Agency and a display belonging to George, VE1CAW, who has been in contact with the Columbia. In the movie there is a clip showing a group of school children questioning the astronauts using amateur radio equipment. Approximately 35,000 people pass through the doors of the IMAX Theater per week. This movie, together with the display is giving Amateur Radio a lot of valuable exposure. Come see the movie! Drop by the display! Chat with club members at the display! Express your thanks to Wayne for all his time and effort!

You won't fall asleep in this movie! 73, John VE1CDD

*Or volunteer to tend the display for a few hours -ed.*

From the ARRL Letter, Vol. 22, No. 10, March 7, 2003

RFI complaint - Winegard amplified television antenna (Model Sensar/Roadstar). RFI complaint from an Amateur Radio operator regarding interference was on 447.375 MHz. An FCC agent investigating the allegation tracked the interfering signal to the antenna on an RV in Portland. The FCC noted that certain Winegard antenna amplifiers "have been the source of radio frequency interference in a number of cases." Due to the complaints, Winegard <http://www.winegard.com> has agreed to replace defective units at no charge. Contact Winegard to make necessary arrangements.

## Silent Key – Les Fillingham, VE1YG

From the ARRL Letter, Vol. 22, # 06

February 7, 2003

### FIELD DAY GETS A NEW ENTRY CLASS FOR 2003

Field Day will gain another entry class for the 2003 running of this highly popular operating event June 28-29. "Class F" stations will operate at emergency operations centers--or EOCs. The change renews the emphasis of Field Day's 1933 origins as an emergency preparedness exercise as opposed to a routine contest--what former ARRL Communications Manager F. E. Handy, WIBDI, called "a test of the emergency availability of portable stations and equipment." In Handy's view, Field Day would focus attention "on the subject of 'preparedness' for communications emergencies."

ARRL Contest Branch Manager Dan Henderson, N1ND, says the League last year received a record 2110 Field Day entries from groups and individuals. That represented a total of almost 35,000 participants who joined in what Henderson called "a great tradition."

Given the increased emphasis on emergency communications since September 11, 2001, Henderson says, the ARRL Board's Membership Services Committee asked that the Contest Branch come up with a way to accommodate stations wanting to operate from the local EOC. The new Class F station, operating from an EOC, is the result.

"This is a major change," Henderson said. "Class F has been established to encourage groups to test and further their working relationships with established emergency operations centers." The updated rules and a list of frequently asked questions in the new 2003 Field Day Packet  
<<http://www.arrl.org/contests/forms>> spell out the details.

A Class F entry station must set up at an "established EOC" activated by a club or non-club group. An EOC is defined as a facility established by a federal, state, county, city or other

civil governmental agency or administrative entity or by a chapter of a national or international served agency. The latter could include the American Red Cross or The Salvation Army, with which the Field Day group "has an established operating arrangement." Class F EOC operation must take place in cooperation with the EOC staff. Class F stations are eligible for the same bonus points as Class A stations.

There's also been what Henderson called "some tweaking" in the rules for Field Day 2003. Among the highlights, the rules reduce from 400 to 100 the number of QSOs that the "Get On The Air" (GOTA) station needs to make to claim a 100-point bonus. "GOTA stations still may work up to a maximum of 400 QSOs to go towards the main station's score," Henderson said.

In addition, the 2003 rules enhance the bonus for having an invited official visit the Field Day site. There are now two separate bonus categories--100 points for the elected official and another 100 points for a visit by a representative of a served agency.

Henderson reminds Field Day participants that stations do not get additional bonus points for contacting stations through additional satellites. As of the 2002 event, Field Day opened up to stations throughout the Americas, not just in the US and Canada.

Henderson encourages participants to post their Field Day experiences and photographs to the Field Day Online soapbox

<http://www.arrl.org/contests/soapbox/>



#### Answer to puzzler on page 2

Hiram Percy Maxim, one of the founders of the ARRL – what else was he famous for?

Answer: He was a famous inventor with many inventions to his credit including a machine gun.

## Museum of Ships Special Event July 19 & 20, 2003



Three ships in Nova Scotia (Halifax & Bridgewater) are eligible for participation in this event.

### EVENT FREQUENCIES

While the participating ships will use any valid amateur frequency the ships will try and stay near the following frequencies:

SSB	CW
3,860 KHz	3,539 KHz
7,260 KHz	7,039 KHz
14,260 KHz	10,109 KHz
18,160 KHz	14,039 KHz
21,360 KHz	18,099 KHz
24,960 KHz	21,039 KHz
28,360 KHz	24,899 KHz
50,160 KHz	28,039 KHz

### EVENT PSK 31 OPERATIONS

14.070	MHz
10.142	MHz
18.100	MHz
21.070	MHz
28.120	MHz



Ships using Original Equipment Frequencies will be given out at later date.

John Forrest Jr., VA3USN/XJF  
HMCS Haida G-63

e-mail address  
[va3xjf@aol.com](mailto:va3xjf@aol.com)



**HARC Tube Bank** Anyone looking for a particular tube or tubes should contact the Tube Bank Managers Amy Cohoon, Ashley Cohoon or Kim Carter by e-mail at

[harctube@hotmail.com](mailto:harctube@hotmail.com)

or [nstn2110@fox.nstn.ca](mailto:nstn2110@fox.nstn.ca)

or snail mail:

99 Hyson Point Rd.  
Mahone Bay, N.S. B0J 2E0

There is a nominal charge if we can supply the tube wanted.

Shipping/mailing is extra.





I have set the codes for the **Environment Canada weather on the IRLP node**. As discussed they are now 30 to bring up the current conditions and 35 to bring up the forecast.

**Shuttle Mission audio** will be accessible by dialing 9252 during mission times. This puts the node in listen mode only, so any activity locally won't interfere.

Users listening should be mindful of others who may want to use the repeater.

73-- Rob VE1KS

**A big thanks to Andy George at Environment Canada for allowing us access to their weather files.**

*Do you have a radio-oriented story, question, answer, article, notice, picture or letter to the editor that you would like to share by having it published in the HARC Reflector?*

*Get them to the HARC Reflector editor, Lynn Bowser, VE1ENT*

*(e-mail [ve1ent@rac.ca](mailto:ve1ent@rac.ca))*

From the ARRL Letter, Vol. 22, No. 09  
**Pioneer 10 spacecraft sends last signal:**  
Talk about weak-signal DX! NASA says that after more than 30 years, it appears the venerable Pioneer 10 spacecraft has sent its last signal to Earth. Pioneer's last, very weak signal was received on January 22. NASA engineers report Pioneer 10's radioisotope power source has decayed, and it may not have enough power to send additional transmissions to Earth. NASA's Deep Space Network (DSN) did not detect a signal during the last contact attempt February 7. The previous three contacts, including the January 22 signal, were very faint with no telemetry received. The last time a Pioneer 10 contact returned telemetry data was last April 27. NASA plans no additional contact attempts for Pioneer 10, which is 7.6 billion miles from Earth. At that distance, it takes more than 11 hours 20 minutes for the radio signal to reach Earth. More information is available on the Pioneer 10 Web page <http://nssdc.gsfc.nasa.gov/nmc/tmp/1972-012A.html>

## NSARA CONTEST

**March 9, 2003**

**DATE:** The contest will take place each year on the second Sunday in March. (March 9 in 2003)

### HOURS:

The contest will run for EIGHT hours: in two four hour sessions.

The Morning Session will begin at 8:00 am local time and will run for FOUR hours until 12:00pm local time.

The Afternoon Session will begin at 2:00 PM local time and will run for FOUR hours until 6:00 PM local time.

### OPERATING BAND:

All contacts for contest credit will take place on the 80 meter band PHONE and CW sections.

### OPERATORS:

Single Transmitter but no restrictions on operators. SINGLE OP.

or

MULTI OP. permitted.

FIELD DAY type portable operations to rare counties are encouraged, especially if BASIC ops. are involved.

### SCORING:

On PHONE – One point per completed contact.

On CW - Two points per completed contact.

The SAME station can be logged once on PHONE and once on CW.

### MULTIPLIERS:

The 18 Counties of Nova Scotia will count as multipliers

Any ham from anywhere can take part, but only Nova Scotia Counties will count as multipliers. Each county can only be counted once, even if worked on both modes.

### EXCHANGE:

The exchange will be:

CALL, SIGNAL REPORT, and COUNTY with Nova Scotia stations

Non Nova Scotia stations contacting each other will exchange only call and signal report.

**LOGGING:** A separate log sheet should be kept for PHONE contacts

as well as a separate sheet for any CW contacts. The logs must clearly indicate whether the contact is PHONE or CW

The log must show:-STATION WORKED; TIME; SIGNAL REPORT; and COUNTY, (if the contact is with a NS Station).

### CERTIFICATES:

Anyone who makes 25 or more contacts in the contest (regardless of score), and submits a log, will receive a "Participation Certificate".

Stations making contacts with all 18 NS counties will have

"Clean Sweep" indicated on their certificates, and they will also qualify for the NSARA WORKED ALL NOVA SCOTIA COUNTIES Award without QSL Card submission.

**SUBMIT LOGS:** Contest entrants will have ONE MONTH to submit logs after the contest. In 2003 the closing date for logs is April 9/03

E-logs to [ve1cel@rac.ca](mailto:ve1cel@rac.ca)

**COMMITTEE:** The contest committee, composed of NSARA Directors, will make the final decision in all matters regarding this contest.

**WINNER:** The winner will receive a framed certificate, as well as having his/her photo on the NSARA web page etc.

### SEND LOGS TO:

Mr Tom Goldie, VE1BYO,  
Antigonish Amateur Radio Club  
18 Ponderosa Drive  
Antigonish, NS B2G 2R5

### *Tech Support*

*An exasperated caller to Dell Computer Tech Support couldn't get her new Computer to turn on. After ensuring the computer was plugged in, the technician asked her what happened when she pushed the power button. Her response, "I pushed and pushed on this foot pedal and nothing happens." The "foot pedal" turned out to be the computer's mouse.*

**Halifax Amateur Radio Club  
Minutes of the General  
Monthly Meeting  
February 19, 2003**



Minutes taken by Trevor, KA8ZUO.

Executive Members Present:

Dick Grantham VE1AI – President,

Murray McDonald, VE1MMD –  
1st Vice President,

Trevor Bast KA8ZUO –  
2nd Vice President,

Jeremy Fowler VE1JHF –  
Treasurer,

Bill Elliot VE1MR –  
Past President,

John Goodwin, VE1CDD –  
Station Manager,

Howard Dickson VE1DHD –  
Member at Large.

Club President Dick, VE1AI, called the meeting to order at 1932.

He began by emphasizing the importance of staying active and involved in amateur radio. He encouraged all members to bring guests in order to generate interest.

The following general announcements were made:

-Several pieces of radio equipment were on display around the room for silent auction.

-A moment of silence was observed for Silent Key, Les Fillingham, VE1YG

-Minutes of the previous meeting were accepted as published in the Reflector. George Snow, VE1CAW, made the motion to accept; the motion was seconded by Dave Nimmo, VE1INN.

Treasurer Jeremy Fowler, VE1JHF, reported the bank balance as \$3955.76. The Treasurer's Report was accepted after a motion by Win, VE1WIN. Scott, VE1QD, seconded the motion.

Dave, VE1AJP, made the Search and Rescue report. He reported the new search and rescue command vehicle would be present at both the flea market and Field Day. He further reported the Search and Rescue opera-

tion is searching for a tower-mounted antenna capable of operating from 142-150 MHz.

Dave also made the EMO report that amateur radio played a critical role in supporting a team searching for space shuttle debris in a remote area.

Dick, VE1AI, announced the Dartmouth Club is holding an open house at the EMO Center and club station on Saturday, 01 March from 0900-1300.

John, VE1CDD, made the Club Station Report that the projection screen is now up and available for use in the club station. The table purchase remains in progress.

Tom, VE1GTC, reported the membership at 89 paid members, two of whom are life, 18 are associate, and 69 are full members.

Dave, VE1NN, announced the Ham Breakfast by reminding all members the breakfast is at 0900 at the Halifax Steak and Stein.

Dave also reported on the preparations for the Downeast Flea Market. The event is scheduled for 07 June at the Halifax Forum. XYL's are invited to bring handcrafts for sale if desired. A social evening is planned for the Friday evening prior at the Chebucto Inn. Special rate accommodations are available for out-of-town visitors at the Chebucto Inn if reservations are made in advance. The doors open at 0600 for sellers and 1000 for buyers.

It is hoped that some presentations will be made. Howard, VE1DHD, asked about the prospect of having radio equipment vendors from Ontario send literature to the hamfest without attending. This was discussed in the past and it was reported that the HARC executive position is that this practice is unfair.

Additionally, a general discussion followed regarding a general drop in the attendance and quality of products available at flea markets.

For the DX'ing and Contesting report, Dick, VE1AI, described his trip

to contest station VE1JF to operate in the ARRL CW Contest. He reported great success and is interested in further participation in the SSB contest the weekend of 02 March.

For entertainment, Trevor, KA8ZUO, reported that Howard, VE1DHD, would speak on the topic of his recent experiences with Radio Amateurs of Canada.

#### Old Business

Dick, VE1AI, indicated his interest in focusing on three special projects: a satellite station, APRS, and fast scan TV. Small groups of individuals have indicated interest and are beginning to organize and make progress.

Wayne, VE1WPH, reported on and displayed the new club stationary that is now available. He quoted the reduced prices for purchasing QSL cards through The Print Shop. He demonstrated the club business cards that can be purchased in packages of 50 for \$10. These can then be customized with the use of a rubber stamp.

Wayne also displayed two rough-draft samples of a membership certificate that will be given to all club members upon joining.

John, VE1CDD, announced the International Museum of Ships Weekend is 19-20 July. He eagerly welcomes as much participation as possible as the club will operate a station from the Maritime Museum of the Atlantic to demonstrate radio to the public.

Tom, VE1GTC, is generating a list of people interested in EMO training.

John, VE1CDD, reported on Field Day preparations. He stated that the highway commission was unable to confirm the club would have access to the traditional highway department Field Day site. The final answer would not be available until approximately two weeks prior to Field Day due to anticipated staging of equipment in support of highway upgrade work. This prompted discussion of alternative sites for the event.

(Continued on page 7)

## New Business

Dick, VE1AI, described his intention to form a welcoming committee for new members and new licensees. The committee would serve to help elmer the new hams. He asked for a volunteer to organize this group.

Trevor, KA8ZUO, will need to step down as Second VP due to an anticipated move out of the area. A replacement is required. Bill, VE1MR, sought nominations for the position. No members indicated interest. It was agreed that Barry, VE1TRI, will ask Fraser, VE1FMD, if he would like to run for the position.

## The Space News (Space Digest):

Wayne, VE1WPH, reported that he contacted the AMSAT organization for support. AMSAT has agreed to support HARC with access to the AMSAT net. He reported there is no problem associated with re-transmitting the net. IRLP would be an option considered to make this possible.

Dick, VE1AI, announced he intended to start using the VE1PKT (146.685 MHz) for disseminating DX information. He also indicated that the DX packet cluster is operational on 145.025 MHz.

Dick also announced that he requires two team leaders for the EMO. These team leaders would serve to contact other EMO members in the event of an emergency or an exercise. Three members indicated interest: John, VE1CDD; Wayne, VE1WPH; and Win, VE1WIN.

Bill, VE1MR, indicated that NSARA informed him that CBC wants to make amateur radio clubs pay to keep repeaters and antennas on CBC towers. The cost would total \$2400 annually. Tom Cohoon, VE1TA, is negotiating on with CBC on behalf of all amateur radio interests.

Lynn, VE1ENT, won both the door prize and the 50/50 draw.

Howard, VE1DHD, moved to adjourn the meeting. The meeting was adjourned at 2040.

Howard, VE1DHD, provided the evening's entertainment by relating his recent experiences with RAC along with suggestions on how the organization requires change.

Respectfully submitted,  
Trevor, KA8ZUO. acting secretary

## TECHNICIAN PROFILES

Courtesy of Jerry Proc, VE3FAB

Several years ago a human resources organization studied a number of technicians and discovered the following profiles:

1. Immaculate Erwin - Avoids any type of dirty job like pulling cable, connecting under-floor electrical, etc.
2. Diagnostic Dan - If the diagnostics work, then the problem is someone else's.
3. Overtime Oliver - Can't fix it during normal shift, but will if you authorize overtime.
4. Gun-Shy Gregory - Afraid to take action for fear of criticism, so waits for management to tell him what to do.
5. Shotgun Stu - Never analyzes a situation, but immediately swaps out everything in sight.
6. Scope-Happy Harry - Regardless of the problem, he takes out his scope and starts at Block # 1.
7. Disappearing Dan - As soon as he becomes aware that a problem is occurring, he becomes busy elsewhere or impossible to find.
8. Telephone Ted - As soon as he spots a problem, he calls Minneapolis, Poughkeepsie, or Toronto, and asks them what he should do.
9. Panic Phil - All too often creates additional problems in his haste or panic to fix one.
10. Avis Arnie - Spends a disproportionate time convincing us that he tries harder.
11. Cannibal Charlie - Takes the parts he needs out of the most available cabinet and doesn't alert anyone of his misdeed.
12. Hard-of-Hearing Harold - Never hears a thing he is told or has explained to him.



From the ARRL Letter, Vol. 22, No. 09 Summits on the Air (SOTA) encourages portable hilltop operation: Richard Newstead, G3CWI, is encouraging participation by US amateurs in the Summits on the Air (SOTA) program, which promotes portable, hilltop operation. "It started about a year ago, and, so far, seven countries have schemes running," Newstead told ARRL. "The scheme is based on a core set of rules, and each country adds its list of summits to enable it to participate." Newstead says the list of summits need not be comprehensive but must include a mix of easy and difficult peaks. He says there are awards for both activators and chasers. Details are available on the SOTA Web site <<http://www.sota.org.uk>> or by contacting SOTA General Manager John Linford, G3WGV, [g3wgv@aol.com](mailto:g3wgv@aol.com)

From the ARRL Letter, Vol. 22, No. 09 February 28, 2003

4L4FN leaving North Korea: Ed Giorgadze, 4L4FN, the first amateur to operate extensively from North Korea and to earn DXCC from that entity, will leave for his next duty assignment March 1. Last fall, after about one year of operation, Giorgadze (an employee of the United Nations World Food Program who had been operating as P5/4L4FN from Pyongyang) was ordered off the air by North Korean authorities. The ARRL accredited SSB and RTTY operation of P5/4L4FN for DXCC, and Giorgadze himself earned a mixed DXCC Award during his stay. As of the end of his operation last November 22, P5/4L4FN had logged a total of 16,194 QSOs (12,170 unique call signs) that included 167 DXCC entities worked. More information on P5/4L4FN is available on the AMSAT Net Web site

<<http://www.amsatnet.com>>  
of QSL Manager Bruce Paige, KK5DO. Click on "P5 North Korea."

Check into the  
Maritime Noon Net, week days at  
12 noon on the Gore repeater,  
146.640 – MHz

From "The Hinge of Fate"  
(The Offensive in the Aether)

by Winston S. Churchill

Prompted by Professor Lindemann, Churchill had his Statistical Department investigate at Bomber Headquarters to determine the accuracy of British & allied bombing. The results confirmed their fears. It was learnt that although Bomber Command believed they had found the target, two-thirds of the crews actually failed to strike within five miles of it. The air photographs showed how little damage was being done. It also appeared that the crews knew this, and were discouraged by the poor results of so much hazard. Unless accuracy could be improved there did not seem much use in continuing night bombing.

Several methods had been proposed to guide bombers to their targets by radio aids, but not pursued until the bombing inaccuracy was recognized. Now attention was focused on them. A device called "Gee" had been developed by which radio pulses were sent out simultaneously from three stations far apart in England. By exact timing of their arrival at an aircraft it could fix its position within a mile. This began to be used on a large scale about ten days after the Bruneval raid. With its aid most of the Ruhr could be struck at but it could not reach deep enough into Germany. Lubeck and Rostock were also bombed at this time, but not using "Gee." Another device on similar lines called "Oboe" was much more accurate. But since it involved flying for a considerable time in a straight line the bombers were exposed to great dangers from A.A. fire. And as with "Gee", the radio waves which it used were too short to curve round the earth's surface. Hence it could only be used up to distances at which the aircraft was above the horizon - say 200 miles at 25,000 feet. This



limited seriously the regions could be attacked. Something better was needed.

Since 1941, when the idea had been shown to be feasible, Lindemann had argued that a radar set mounted in the aircraft itself could throw onto a screen in the cockpit a map of the ground over which it flew. If the bomber navigated with the aid of "Gee" or other methods to within say fifty miles of the target, it could then switch on this apparatus and drop its bombs through cloud or haze without possibility of jamming or interference. Distance would not matter, as the plane would carry its radar eye with it wherever it went and the eye could see in the dark

This device, which afterwards became well known by the code-name H2S, encountered many obstacles but pushed by Churchill's determination, it eventually worked well. Special ultra-short waves were used. The shorter the wave the clearer the picture became on the aircraft's screen. The transmitter for these microwaves, entirely a British invention, revolutionized the radio war both on land and at sea. It was not until one eventually fell into German hands that they were able to copy it.

The first step was to make a working model; then produce it in numbers, fit it into planes, and teach the crews how to use it. If too much time were spent on experiment, manufacture would be delayed, and so would accuracy of bombing.

*Memo: Prime Minister to Secretary of State for Air (Apr. 14, 1942)*

We are placing great hopes on our bomber offensive against Germany next winter, and we must spare no pains to justify the large proportion of the national effort devoted to it. The Air Ministry's responsibility is to make sure that the maximum weight of the best type of bombs is dropped on the German cities by

the aircraft placed at their disposal. Unless we can ensure that most of our bombs really do some damage it will be difficult to justify the pre-eminence we are according to this form of attack. The following seem to be needful for success:

(i) To make sure that crews are practiced in the use of blind bombing apparatus, which should be installed by this autumn in most of our night bombers.

(ii) To discover any difficulties which navigators may find in the use of sextants for astro-navigation, overcome them, and make sure they employ this method to get them within twelve to fifteen miles of the target, after which the blind bombing equipment comes into play.

(iii) To make certain that the large number of bombers we expect to get will not be immobilized by bad weather. This will entail preparing adequate runways, homing devices, and possibly fog-clearing gear on the aerodromes, and de-icing and blind-landing equipment, etc., on the planes.



*Thought for the day: Never be afraid to try something new. Remember that a lone amateur built the Ark. A large group of professionals built the Titanic.*

The Lakeshore Darts, Draughts, Chowder & Marching Society was first conceived on 75 meters in 1949 because of the difficulty of commuting in to the city for the Montreal Amateur Radio Club's regular meetings.

The club's purpose was a monthly opportunity to get together over a pint for a rag chew. There were no constitution, no dues, no elected officials.

*from the book "from spark to space" by the Saskatoon Amateur Radio Club*

The initials "I.P.A.R.N." stand for Inter-Provincial Amateur Radio Network



From the ARRL Letter, Vol. 21, No. 47,  
WRC-03 CONFERENCE

### PREPARATORY MEETING EXPANDS 40-METER OPTIONS

Participants at the Conference Preparatory Meeting (CPM) for World Radiocommunication Conference 2003 heard just five ways to fix 40 meters, plus a sixth that would just leave things as they are.

"The 5 options for change all represent improvements in the amateur band although two fall short of fulfilling the 300-kHz worldwide requirement," said ARRL Chief Executive Officer David Sumner, K1ZZ. He attended the Geneva gathering in his role as International Amateur Radio Union (IARU) secretary. "All six options maintain the existing 300-kHz exclusive amateur allocation in Region 2."

The objective of the CPM was to complete work on a 700-plus page extensive technical CPM Report, which outlines methods to address the more than three dozen items that are on the WRC-03 agenda. As for amateur issues, Sumner says 7-MHz realignment or harmonization "is one of the most difficult issues facing WRC-03." As he explains the situation, three major interests--amateurs, shortwave broadcasters, and users, mainly military, of the fixed and mobile services--have a stake in the outcome.

The IARU is on record as supporting a 300-kHz worldwide amateur allocation in the vicinity of 7 MHz. Sumner said achieving this would require the fixed and mobile services to make room for broadcasters and for the broadcasters to change their operating frequencies. The five methods for change the CPM Report describes include a variety of transition schedules to ease impact on these other services.

\* Method A would shift Region 1 & 3 broadcasters up by 200 kHz to 7300-7550 kHz in two stages and would provide the same band for broadcasting in Region 2.

\* Method B is similar but would have amateurs in Regions 1 and 3 sharing the upper 100 kHz of their newly ex-

panded band with fixed and mobile.

\* Method C would provide just 200 kHz for amateurs in Regions 1 and 3. Amateurs in Region 2 would continue to contend with broadcasting interference from Regions 1 and 3 in the 7200-7300 kHz segment.

\* Method D, proposed by Canada at the CPM, would provide 300 kHz worldwide for amateurs by shifting broadcasters in Regions 1 & 3 up by 200 kHz but would not expand the Region 2 broadcasting allocation. This plan would minimize the impact on fixed and mobile services in Region 2.

\* Method E, proposed by the Republic of Korea at the CPM, would provide amateurs in Regions 1 & 3 with an additional 100 kHz shared with fixed & mobile (7100-7200 kHz). As with Method C, however, Region 2 amateurs would continue to face broadcasting interference from Regions 1 & 3 in the 7200-7300 kHz segment.

\* Method F, proposed by Australia at the CPM, would maintain the status quo. This plan reflects concerns about the impact of realignment on military and national security communications capabilities.

"There is no guarantee that proposals will be limited to the six methods described in the CPM Report," Sumner said.

Chairing the CPM was Eberhard George, DL7IH, of Germany. A 3-member IARU team was headed by President Larry Price, W4RA, and included Sumner and Wojciech Nietyksza, SP5FM. ARRL Technical Relations Manager Paul Rinaldo, W4RI, served as a member of the US delegation. He also was named to chair the ad hoc group that dealt with the substance of the 7-MHz text. Several other amateurs were on their national delegations, some of them specifically to represent Amateur Radio and others in professional capacities. IARU Vice Pres. David Wardlaw, VK3ADW, was on the Australian delegation. Amateur Radio was well repre-

sented.

Sponsored by the International Telecommunication Union (ITU), the CPM drew more than 1000 participants to Geneva during the last two weeks of November. Over the next three months, regional telecommunications organizations and groups (CEPT, CITEL, and Asia-Pacific Telecommunity, the African Telecommunications Union, and Iran and the Arab States) as well as individual administrations will be developing their proposals for WRC-03, which takes place in Geneva, summer, 2003

*The Flight attendant announced  
"As you exit the plane, please make  
sure to gather all of your belongings.  
Anything left behind will be  
distributed evenly among the flight  
attendants. Please do not leave  
children or spouses."*

From the ARRL Letter, Vol. 22, # 06  
Yugoslavia becomes Serbia-Montenegro: Yugoslavia's parliament has voted to formally abolish that nation and replace it with a new country called Serbia-Montenegro, which were the two remaining Yugoslav republics. In accordance with a deal arranged by the European Union and aimed at keeping the two republics together, Serbia and Montenegro will continue to share a capital, Belgrade, and a joint administration for defense and foreign affairs. The new arrangement will have little immediate impact on Amateur Radio. For DXCC purposes, Serbia and Montenegro will be considered a single entity, at least for the time being, and amateurs there are expected to continue using YU/YT prefixes. The situation could change in three years when residents of the two republics would be allowed to vote to stick together or go their separate ways. Yugoslavia was established in 1918 as the Kingdom of Serbs, Croats and Slovenes. DXCC criteria are available on the ARRL Web site  
<http://www.arrl.org/awards/dxcc/rules.html#sii>

# From the ARRL Letter, Vol. 22, No. 04, VIRGINIA AMATEUR GROUP SETS NEW 145 GHz DX RECORD

Four amateurs from the Lynchburg, Virginia, area celebrated the new year January 12 by breaking their own distance record on 145 GHz and by confirming a fifth grid for VUCC <<http://www.arrl.org/awards/vucc/>> on yet another microwave band. Brian Justin, WA1ZMS; Pete Lascell, W4WWQ; Hal DeVuyst, KA4YNO; and G. P. "Geep" Howell, WA4RTS, spanned a nearly 80-km path to set a new North American and world DX record.

"This claim should be the very first VUCC for that band, and it took two years of hard work to make it happen," said Justin. Both stations exchanged contact information using FSK-CW. All participants are members of the Lynchburg Amateur Radio Club (K4CQ), of which Justin is president. The group already has earned the first-issued VUCC awards on the 47 and 76 GHz bands.

Justin, who designed and built all of the equipment, set up his station in grid square EM96wx in Southwest Virginia. On the other end of the circuit was the W2SZ/4 station, with Howell, Lascell and De Vuyst. W2SZ/4 was at approximately 4000 feet above sea level in Virginia's Bedford County in grid square FM07fm. Lascell said while the team was setting up, he was able to snag a 20-meter contact with KM1CC, the Marconi special event station on Cape Cod. "A neat way to tie the bottom of the spectrum and the beginning of radio to a new frontier 100 years later," he said.

Weather conditions were just right for the QSO to take place with little wind and an extremely low dew point and no haze. Both stations ran about 4 mW of power using precisely aimed one-foot dish antennas.

Additional information is available on the Mt Greylock Expeditionary Force Web site

<http://www.mgef.org>

RAC's web site is [www.rac.ca](http://www.rac.ca)

## Ham Radio Magazines

This month we have catalogue and sorted the Ham Radio Magazines. Do you have any of these issues? Why not donate them to the Halifax Amateur Radio Club? We would love to receive these issues to complete the library.

Contact John (ve1cdd.rac.ca or phone 865-5731.) for pickup in the local area or drop them off at the station.

Special thanks to Pat (VE1PHK) and Tom (VE1GTC) for helping out with the project.

### Ham Radio (Missing Issues)

1968 Jan, Feb, Apr, May, June,

July, Aug, Sept, Oct, Nov, Dec

1969 Jan, Feb, Mar, Apr, May,

July, Aug, Oct, Nov, Dec

1970 Jan, Feb, Mar, Apr, May,

June, July, Aug, Sept,

Oct, Nov, Dec

1971 Jan, May, July

1972 May, Sept, Oct, Nov, Dec

1973 Feb, Apr, May, June, Aug,

Sept, Nov

1974 Oct, Nov

1975 Mar, May

1976 Feb

1977 Complete

1978 Oct

1979 Apr

1980 Complete

1981 Aug, Sept, Oct, Nov, Dec

1982 Dec

1983 Jan, Sept, Nov

1984 May

1985 Mar, June, Oct, Nov

1986 Jan, Mar, May

1987 Jan, Feb, Mar, Apr, Sept, Oct

1988 Jan

1989 June, Oct

1990 July, Aug, Sept, Oct, Nov, Dec

73 John VE1CDD



*Life is not measured by  
the number of breaths we take.  
but by the  
moments that  
take our breath  
away!*



From the ARRL Letter, Vol. 22, No. 10,  
UK TO AK ON 136 kHz

Reaching Alaska from the United Kingdom using just 1 W ERP is quite a feat for any band, but the Radio Society of Great Britain reports that Laurie Mayhead, G3AQC, was heard in Alaska on 136 kHz. In the early hours of February 15, he transmitted to Laurence Howell, GM4DMA/KL1X in Anchorage, and just before UK dawn at 0615 his call sign was clearly identified using software to read the signal.

G3AQC was using QRSS, very slow CW, with a 60-second-long dit. The 7278-km distance is a transmission record for 1 W ERP on 136 kHz.

Two years ago, Mayhead and Larry Kayser, VA3LK, made ham radio history when they completed the first two-way transatlantic exchange on 136 kHz using very slow speed CW. Last year G3AQC became the first person to span the Atlantic on 73 kHz.

"The signal would theoretically go on a Great Circle route to nearly 80 degrees north, over the northern Canadian Arctic, northern Greenland, east of Iceland, Glasgow, then over the UK to the South Coast — across and through the auroral oval."

There's speculation that the actual path might be around or even under the auroral zone, since there was no auroral Doppler seen on the received signal. Howell and Mayhead credited research and preparation carried out by G3NYK, G3LDO, W3EEE and W4DEX, for helping to set the new LF record. --RSGB

*How long a minute is depends on  
what side of the bathroom door  
you're on.*

## REMINDER

Have you changed your address? Got a new call sign?

We need to know your correct address to get the newsletter to you. Please inform Tom Caithness, VE1GTC, of any address changes.